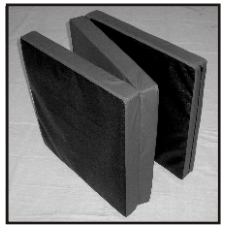
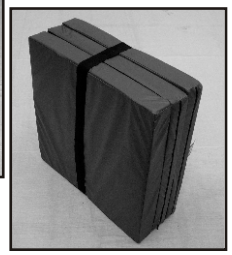
RECOMMENDED ACCESSORIES

Nexus accessories and profiling mattresses are designed specifically for use with our beds. Customers should be aware that the use of mattresses and/or accessories not manufactured or recommended by Nexus DMS Ltd may take the bed out of EN1970-2000 specification for which the manufacturer can take no responsibility.

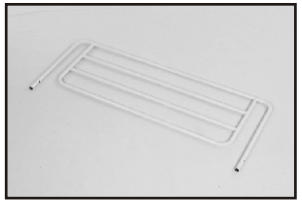
A range of matched pressure care & non-pressure care mattresses

Safety foam bumpers for siderails & head/foot boards





crashEX safety mat



Matched siderail extenders

easyEX movement aid

Function-lock & soft touch hand controls

lightEX reading and examination light

Nexus DMS Ltd.,Unit 11, Lovett Road, Hampton Lovett Ind. Estate,
Droitwich, Worcs., UK. WR9 0QG
Tel: +44 (0) 19 05 77 46 95 Fax: +44 (0) 19 05 79 60 81
nexus.dms@btinternet.com www.nexusdms.co.uk

Ref: NX.85.000 0806

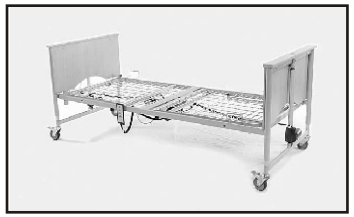
The Hadley

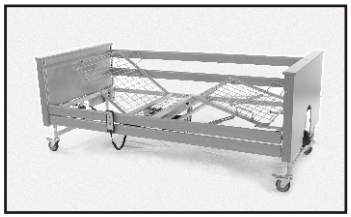
Electrically powered profiling bed

Code CB22SR-200-90 - metal siderails
Code CB22NR-200-90 - no siderails
Code CB23TR-200-90 - timber siderails
Code CB23NR-200-90 - no siderails

USER MANUAL

August 2006 edition





SAFETY NOTICE

This manual contains important information regarding the safe & proper saamebly use of the bed. It is important that any persons involved in the assembly and/or use of the bed should have read & understood its contents. Failure to do so could result in damage to the bed and may invalidate the warranty. Be aware that elements of the bed are heavy. Those involved should observe the safe lifting and handling techniques recommended under Health & Safety Regulations.

PAY PARTICULAR ATTENTION TO THE FOLLOWING ADVICE.

ASSEMBLY & INSTALLATION.

* The bed should be assembled by suitably competent persons.
* Ensure that the local electricity mains voltage corresponds to that marked on the main controller label before connecting to the supply.
* Ensure that cables from actuators are plugged into the main controller correctly.
* The fuse in the mains 'safety connector' plug should not exceed 5amps.
* The bed should be located on a level surface & not sited on loose floor coverings .
* The cable from the mains electricity supply must be routed clear of the lifting mechanism & castors to avoid danger of shearing or crushing.

OPERATION.

* The brake on each castor must be applied whilst the bed is in use (see also Page 8).
* Do not allow children underneath the bed or to use the controls.
* Do not position objects under the lifting mechanism of the bed.
* Always ensure that limbs or body parts of both user and carer are not protrudung from the bed, are not between the siderails or into the lifting mechanism when using the powered functions.
* Never exceed the maximum usage period of 2 mins continuous use in any 18 mins for any of the powered functions. Should you do so the actuator may 'close down' for a period to recover.
* If, during operation, there are any unusual noises or smells then disconnect the bed from the mains electricity power supply immediately. Ensure that no cables are trapped.
* When raising/lowering the bed be very aware of any fixtures such as window sills, shelf units & electrical power sockets which may obstruct the raising of the bed. If necessary re-position the bed to avoid contact and damage.

RE-SITING.

* If moving the bed to a different location always ensure that all bed functions are at their lowest position & remember to remove the plug from the mains electricity power supply.
* Release all brakes before moving the bed, otherwise damage may occur.
* Never use the siderails to push or pull the bed. Always use the head and foot boards.
* With or without occupant, the bed should only be moved at slow speed & not pushed over a threshold strip greater than 2cm in height.
* Once the bed is re-sited remember to re-apply the brakes.

MAINTENANCE & CARE.

* All wingscrews, grubscrews & mechanical fixings should be checked regularly for tightness.
* Use a damp cloth with normal household cleaners or warm soapy water to clean the bed. Do not use cleaning agents containing ammonia, abrasives or strong solvents.
* Mechanical cleaning, scouring, pressure hoses or automated cleaning will damage the bed.
* All electrical actuators are fitted with maintenance-free self-lubricating bearings & no attempt should be made to oil or grease these parts.
* A suitably qualified service engineer should check all electrical parts & cables and mechanical functions for correct operation at least once every year.
* Any unauthorised modifications, adjustments or alterations will invalidate the product warranty.
* Repairs should only be carried out by a suitably qualified competent engineer.
* It is the owners responsibility to ensure that this product undergoes an annual PAT2 test.

Troubleshooting.

Fault	Remedy
No actuator functions when hand control operated	Check connection to mains electricity supply & fuse; check that the safety connector has not become disconnected; check connections of hand control and actuator plugs to main controller.
One actuator does not work when button Is pressed.	Check connection between actuator cable and controller.

TIP: If you have another Nexus bed of the same type (which you know is functioning correctly) try the hand control off that bed - if this cures the problem then the original hand control is faulty. Has the spiral cable been over-stretched or damaged in some way?

CB22/CB23 Hadley bed - component weights

	No. per bed	*CB22 (metal rails)*	*CB22 (no rails)*	*CB23 (timber rails)*	*CB23 (no rails)*
Bed end+actuator+castors	2	18.2kg	18.2kg	23.7kg	23.7kg
Mattress support - head end+actuator	1	18.3kg	18.3kg	18.3kg	18.3kg
Mattress support - foot end+actuator	1	19.3kg	19.3kg	19.3kg	19.3kg
Main controller/cable/hand control/act	1	3.6kg	3.6kg	3.6kg	3.6kg
Siderail - metal - each	2	4.1kg	-	-	-
Siderail bracket - each	4	0.35kg	-	-	-
Siderail - timber -each	4	-	-	2.125kg	-
Lifting pole+grab handle	1	5.5kg	-	5.5kg	-

Those involved in the handling and assembly should follow Health & Safety guidelines and observe safe lifting and handling techniques.

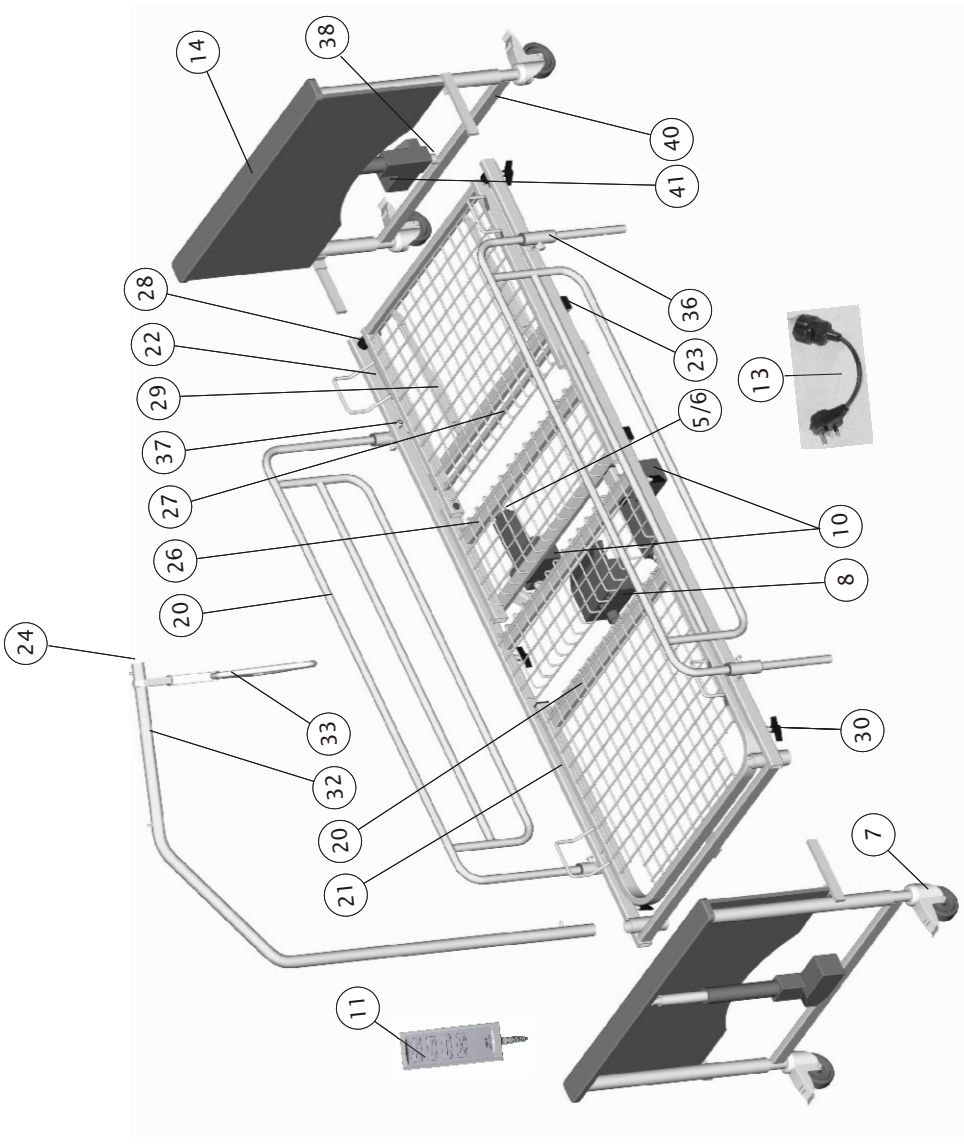
Technical Data.

Operating voltage	~230V / 240V / 50Hz
Power reception	160 VA
Power duration	max. 2 mins in 18 mins (10%)
Appliance type B	
Safety class II	⧈
Weight of bed	CB22SR-200-90 (metal rails) 87kg (w/out mattress or pole)
	CB23TR-200-90 (timber rails) 97kg (w/out mattress or pole)
Safe working load	200kg (32 stones)
Product conforms to	EN 1970:08.2000
Product conforms to	EN 60601-1-1:1990

The Company reserves the right to make technical changes without notice.

PARTS LOCATOR

When telephoning for assistance or to order spare parts it is essential we have the unique serial number from the bed. This enables us to identify the correct items for the model of bed and year of manufacture. Spare parts lists are available on request.
Beds in The Hadley range are similar to that shown below. Other beds in the series are similar and most parts are common to all.



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8. Raising & lowering timber siderails.
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FEATURES OF THE HADLEY BED.

This modular care bed has four electrically operated functions - back rest, leg rest, bed height & Trendelenburg / reverse Trendelenburg. These are powered by linear actuators, each of which is sealed, uses maintenance-free permanent lubrication & is ingress protected to IP54 standard. The functions are operated using a 4-function hand control which is ingress protected to IP54 & is connected to the main controller via a spiral cable. The main controller is ingress protected to IP54 standard.
All electrical functions are isolated from the mains power supply & operate at 24v DC low voltage.

A 240V mains electrical ‘safety connector’ is supplied. This can reduce the likelihood of damage or injury if the bed is moved before being unplugged from the mains power supply socket.

The mattress support is constructed from metal mesh which allows the mattress to breathe and so prolongs its life.

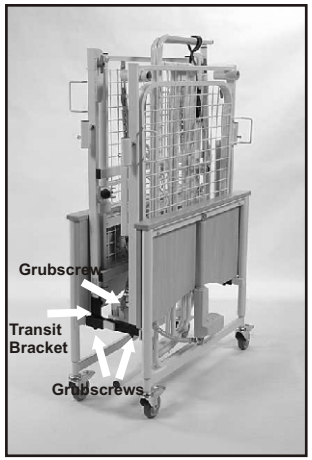
The Hadley bed can be supplied with either no siderails, metal or timber ‘lift & lock’ siderails together with a lifting pole and grab handle. Each castor features a simple to operate brake.

Nexus accessories and profiling mattresses are designed for use with our beds. Customers should be aware that the use of mattresses and accessories not manufactured or recommended by Nexus DMS Ltd may take the bed out of EN1970 specification for which the manufacturers can take no responsibility.

PRODUCT IDENTIFICATION.

Each bed carries a label which identifies the type of bed and its unique Serial Number.
Should you ever require advice or spare parts then it is essential that you quote the Serial Number - this enables us to match parts and advice to your particular bed.
The identification label, similar to the one in the picture, is generally located on one side of the mattress support unit.

UNPACKING BED SECTIONS FROM THE TRANSIT FRAME.

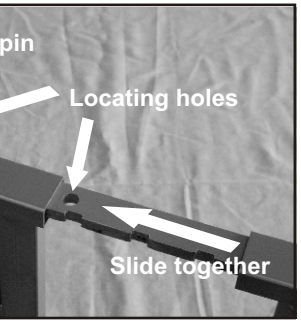


(This procedure is better completed by two people.)
PLEASE REFER TO THE SAFETY NOTICE ON PAGE 2
BEFORE ATTEMPTING TO UNPACK/ ASSEMBLE THE BED.

1. Carefully remove the ties and take the lifting pole out from the side of the unit (where supplied).
2. Remove the ties, lift the metal siderails upwards & clear of the bed (where supplied)
3. Each half of the mesh mattress support locates on transit brackets & is held in place by two grubscrews at its lower end (one each side). Unscrew the two fixings and lift one half of the mattress support clear of the transit brackets. Lift upwards until it is clear of the bed ends. Repeat the process for the second half of the mattress support.
4. Loosen the two grubscrews on the underside of each transit bracket and with a second person supporting one of the bed ends carefully slide the other bed end off the brackets. Remove the transit brackets completely.

RETAIN TRANSIT BRACKETS FOR RE-PACKING THE BED FOR TRANSIT OR STORAGE.

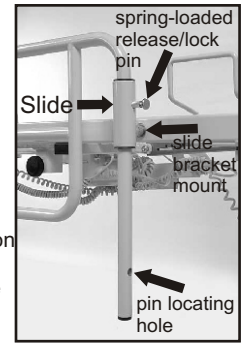
ASSEMBLY OF THE MATTRESS SUPPORT UNIT - all beds.



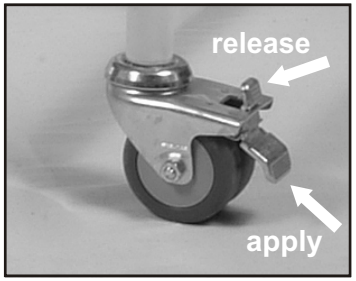
1. Position the two halves of the mattress support facing each other as shown. Note the position of the locating hole in the joining bar. Unscrew the two grubscrews but do not remove completely. (One each side)
2. Slide the sections together, ensuring both sections fit fully together until the outer tubes touch each other.
3. Position a clevis pin **from the outside** through the outer tube and inner joining bar - locking the 2 halves of the mattress support assembly together. Attach the 'R' clip through the small hole at the inner end of the clevis pin.
4. Tighten the 2 grubscrews on the underside of the mattress support very securely using an Allen key. These should be rechecked for tightness periodically - refer to Page 2.

FOR EASE OF ASSEMBLY YOU SHOULD *ALWAYS* FIT THE 2 CLEVIS PINS AND 'R' CLIPS *BEFORE* TIGHTENING THE 2 GRUBSCREWS.

RETRO FITTING OF METAL SIDERAILS



1. In each side of the mattress support unit are two holes fitted with plastic plugs. Carefully remove the four plugs.
2. Using the appropriate spanner remove the nuts & washers from each of the slide bracket mounts.
3. Position one of the slide bracket mounts through one of the holes in the mattress support, attach the washer & nut and tighten sufficiently to be secure, whilst allowing the slide bracket to rotate freely.
4. Repeat (3) for the remaining slide brackets.
5. Rotate the slide brackets so that the spring-loaded release/lock pins are on the right hand side of the slide bracket (as you look at the bed).
3. Now slide one end of a siderail into the raised slide bracket until it hits the pin.
4. Pull out the spring-loaded pin, lower the siderail & release the pin. Continue to lower the siderail until the pin locates in its locating hole.
5. Repeat the process at the other end & for the second siderail.



APPLYING & RELEASING THE BRAKES.

For safety reasons the brake on each castor must be applied when the bed is in use.
They must be released before moving the bed.

WARNING: When using the Trendelenburg/Reverse functions **only** the 2 brakes at one end of the bed should be **applied.** The 2 brakes at the other end MUST be left released.

RECORD OF MAINTENANCE & SERVICING

Use this page to keep a record of repairs to, and servicing of, this bed.
From the identification label attached to the bed (see Page 4) make a note of the following:

BED TYPE: Hadley.....

PRODUCT CODE: CB2.....- 200 - 90.....

SERIAL NUMBER: .....

DATE: DESCRIPTION:

RAISING & LOWERING TIMBER SIDERAILS.

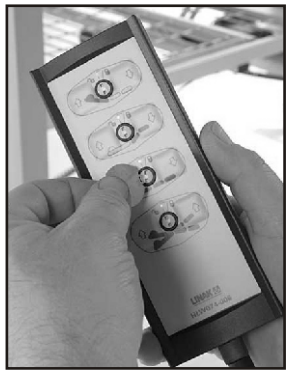
TO RAISE:
Hold the UPPER siderail at the head end & slide up the channel until the locating pin engages with a 'click'.Both upper & lower rails are now locked in the upper position, correctly spaced.
Repeat the procedure at the foot end.
For occupant safety always 'lift & lock' the siderails at the head end first.
TO LOWER:
Hold the UPPER siderail & lift slightly until it stops. This action 'unlocks' the release button on the side of the footboard.
Press & hold the button & gently lower the siderails until they rest on the stop at the bottom of the track.
Repeat the procedure at the foot end.
NEVER let go of the rails & allow them to drop.
For occupant safety always lower the rails at the foot end first.

ADJUSTING THE FOWLER POSITION KNEE-BREAK

The Fowler position knee-break is adjusted on ratchet mechanisms attached to the leg lift section and can be adjusted both manually and electrically. There are 6 positions available so that you can achieve the correct angle for a particular users knees.
MANUAL ADJUSTMENT: Raise the leg lift section electrically to a chosen height and then, holding one of the mattress retaining handles, lift the foot section until it 'clicks' and remains at the position you require. To lower - lift fully to its highest position (you will hear 'clicks') then lower until the foot section rests on the mattress support unit.
ELECTRICAL ADJUSTMENT: Raise the leg lift section electrically until you achieve the knee angle required. Lower electrically until you hear 1 'click' then raise electrically to the height you require. The chosen angle will be maintained. To lower - use the hand control and lower electrically until flat.

USING THE ELECTRICALLY POWERED FUNCTIONS.

BEFORE USING ANY POWERED FUNCTION PLEASE READ THE SAFETY NOTICE ON PAGE 2.
Hadley beds are supplied with a hand control, similar to the one pictured. This controls the raising of the back rest, leg rest, bed height & Trandelenburg functions.
The 4 buttons to the left control the 'raise' functions & the 4 buttons to the right the 'lower' functions.
Each button carries a pictogram to denote its function.
ANY FUNCTION CAN BE 'SWITCHED OFF' simply by inserting the stainless steel key provided into the circular switch & rotating to point to the locked padlock symbol.
A clip on its rear allows the hand control to be positioned conveniently on a siderail.

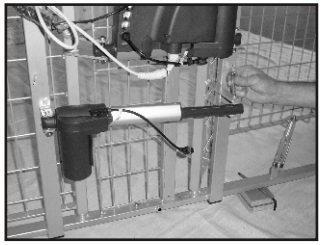


WARNING: When using the Trendelenburg/Reverse functions **only** the 2 brakes at **one end** of the bed should be applied. The 2 brakes at the other end MUST be left released.

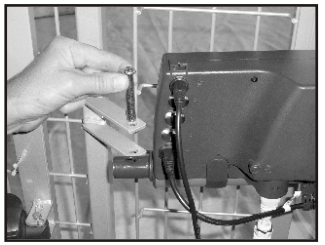
MOUNTING THE ACTUATORS TO THE MATTRESS SUPPORT UNIT

Once the 2 halves of the mattress support unit have been assembled it is necessary to attach the free ends of the back-lift and leg-lift actuators to their respective mounting points on the mattress support assembly. Note that the leg-lift actuator has the main control box attached to it.
1. Remove the 'R' clip and clevis pin from each of the 2 mounting brackets.
2. Swing each actuator into place, positioning the end of its arm centrally in the mounting bracket legs - carefully aligning all 3 holes.
3. Replace each clevis pin and re-fit the 'R' clip securely.

BACK-LIFT ACTUATOR



LEG-LIFT ACTUATOR

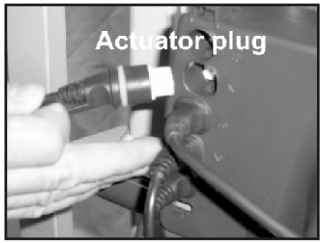


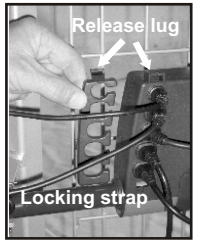
MOUNTING THE MAINS CABLE TO THE MATTRESS SUPPORT

It is important that the mains cable is securely attached to the mattress support unit. Unscrew the silver nut from the grey plastic gland on the cable. Position the gland through the mounting bracket on the underside of the mattress support unit (head end), re-fit the nut and tighten - taking care not to over-tighten, otherwise the plastic screw threads may be damaged.

CONNECTING THE ACTUATORS TO THE MAIN CONTROLLER.

There are 4 actuators, each is connected to the main controller by a spiral cable and multi-pin plug. The plugs are 'keyed' & will only insert if correctly aligned in the socket - the square 'key' should point towards the floor.
There is a locking strap over the sockets - this should be released, using the tip of a small screwdriver, before attempting to fit the plugs & snapped back afterwards to 'lock' the plugs in place.
Assemble each of the plugs & then fasten the spiral cables into their retaining loops on the underside of the bed so that they do not trail on the floor.
Take great care to ensure that cables are clear of actuators & that there is sufficient slack to allow for the movement of bed parts.
The actuators are connected as follows:
Socket 1: Back-lift: **Socket 2**: Leg-lift: **Socket 3**: Foot end of bed **Socket 4**: Head-end of bed



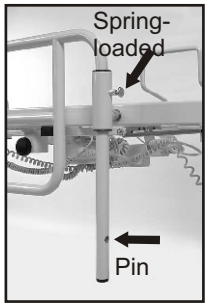


Standard bed - metal siderails

ASSEMBLY OF THE HEAD & FOOT BED ENDS

1. First identify the 'head' end of the mattress support by its lifting pole sockets. The 2 bed ends assemblies are interchangeable.
2. Place each of the three assemblies on their sides - head to head & foot to foot. (pull out the back & leg lift sections by hand & the mattress support unit will support itself.
3. Unscrew the four grubscrews on the underside of the mattress support tubular section (two at each end).
4. Raise the mattress support unit from the floor & slide the head-end 'T' brackets fully into the tubular sections. Securely tighten the grubscrews using an Allen key.
5. Repeat (4) for assembly of the foot-end.

FITTING METAL SIDERAILS.



1. Two slide brackets are pre-assembled each side of the tubular mattress support.
2. Rotate the brackets so that the spring-loaded release/lock pins are on the right hand side of the slide (as you look at the bed).
3. Now slide one end of a siderail into the raised slide bracket until it hits the pin.
4. Pull out the spring-loaded pin, lower the siderail & release the pin. Continue to lower the siderail until the pin locates in the hole in the siderail.
5. Repeat the process at the other end & for the second siderail.

Standard beds - timber siderails

ASSEMBLY OF BED ENDS & SIDERAILS

(Siderail finger assemblies are pre-assembled to the bed ends on this style of bed)

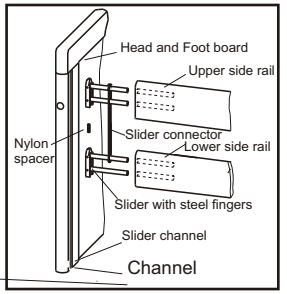
1. First identify the 'head' end of the mattress support unit (lifting pole sockets). The 2 bed end assemblies are interchangeable.
2. Place each of the three assemblies on their sides - head to head & foot to foot.
3. Unscrew the two grubscrews on the underside at each end of the mattress support unit.
4. Raise the mattress support unit from the floor & slide the head-end 'T' brackets fully into the tubular sections. Securely tighten the grubscrews using an Allen key..
5. Repeat (4) above for assembly of the foot-end - but do not tighten these two grubscrews.
6. Connect the actuators to the main controller (refer to Page 6)
7. Carefully pull the bed over & on to its castors.
8. With assistance, take the weight off the **foot end** castors by lifting the mattress support Unit at that end.

contd

9. Very carefully slide out the bed end until you can see approx. 2.5" (65mm) of the 'T' brackets.(Picture A) - do NOT remove bed end completely. Lower onto its castors.
10. Take two siderails & slide onto the finger assembly at the **head** end. Holding the top rail, lift until the rails lock into their upper position.
11. Lift the other end of the rails & slide onto the finger assembly at the foot end. (Picture B)
12. Repeat for the two rails at the other side of the bed.
13. Slide the bed end back fully into the tubular section of the mattress support & re-tighten the two grubscrews very securely using an Allen key.

SIDERAIL FINGER ASSEMBLIES

Should it ever be necessary to take apart and re-fit the siderail finger assemblies then, to ensure correct operation and maintain the approved measurements, it is essential that they are re-fitted correctly - refer to this diagram.



FITTING THE LIFTING POLE (where supplied)

1. There is a socket for the lifting pole on each side of the bed at the head end.
2. Insert the lifting pole into either the left or right hand socket.
3. Rotate the pole until the pin on the pole locates in the corresponding groove in the socket - this keeps the pole central & securely positioned for use.
4. Hang the grab handle over the end of the pole between the two vertical pins & adjust the strap to the required length.
5. The pole can be lifted slightly to free the pin & swung out of the way when not in use. It must NOT bear any weight when in this position.

RAISING & LOWERING METAL SIDERAILS (where fitted)

TO RAISE: From its lowest position hold the upper tubular section & slide upwards through the brackets until the spring-loaded release/lock pins locate in the holes in the vertical sections of the rail. The siderail is now locked at each end in the upper position. If lifting each end separately then, for safety, it is recommended that you lift & lock the head end first.

TO LOWER: Support the foot end of the rail, pull out the silver locating pin & lower the rail gently until it stops. Repeat at the head end. For occupant safety always lower the foot end first.

TO REMOVE COMPLETELY: From its upper, locked position, support the rail, pull out the pins & lift further until the rail clears the brackets. When re-fitting, the spring-loaded pins must be on the right hand side of the brackets when looking at the bed.